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QUARTERLY REPORT # 4

September 15, 1978

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APPLICATIONS OF HCMM DATA

TO

SOIL MOISTURE SNOW

AND

ESTUARINE CURRENT STUDIES

(E78-10211) APPLICATIONS OF HCMM DATA TO  
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HCM-045

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A. Problems

The major problem is the lack of HCMM data, i.e., images and tapes. Only occasional samples of HCMM products have been received, the latest being a tape of the San Joaquin Valley. The tape has been given to our programmer to familiarize him with expected HCMM tapes of our test sites.

B. Accomplishments

Computer-enhanced images from the HCMM aircraft tapes have been produced. Unfortunately cloud contamination severely limited the usefulness of the data.

C. Significant results

NONE

D. Publications

NONE

E. Recommendations

NONE

F. Funds expended to date

Balance of funds	\$1.6K
Spent this period	<u>1.6K</u>
Funds remaining	\$0.0K*

\*We plan to retrieve approximately 1.5K from the USDA/S.C.S. in Minnesota to provide funds for additional field surveys.

G. Data utility

Other than the aircraft tapes mentioned under B and the recently received HCMM tape noted under A, no satellite or new aircraft data of our test sites are yet available for study. A program received from John Price to run HCMM tapes required our programmer, John Pritchard,

to supply a missing subroutine. Hopefully the program will be oprational in the near future.

#### H. Future plans

A soil moisture radiometric gage from Idaho Industrial Instruments, Inc., is expected to be permanently installed at the Luverne test site by the end of October. Another field survey is planned during October to coincide with a HCMH overflight.